

# Metal Intramedullary Needle

## Operation Manual



## Why choose Fule?

### Our strengths

- The company is a national high-tech enterprise integrating research and development, production and sales of medical devices, with a full intelligent processing equipment production line.
- The establishment of the Academician Expert Studio helps to enhance the R&D capabilities of Fule and further deepen the cooperation between industry, academia, and research; Approved postdoctoral research workstation.
- The hardware facilities are complete, the R&D team is excellent, and we work closely with clinical experts, obtaining more than 100 domestic and foreign patents.
- Based on the agent cooperation model, establish a nationwide sales and service network, supply products to nearly a thousand tertiary hospitals nationwide, and export to more than 20 overseas countries.



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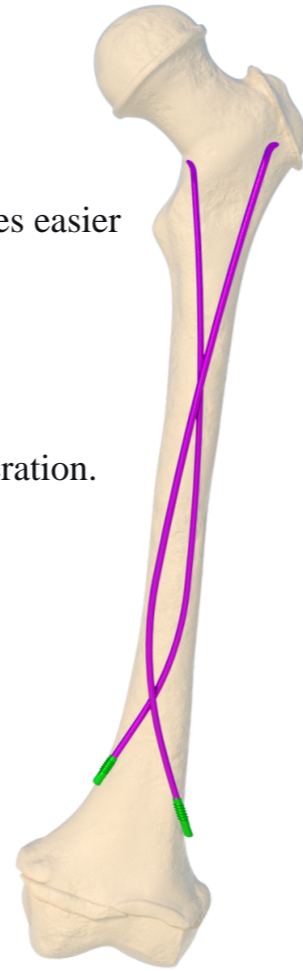
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## Product Advantages

- The curved tip of the intramedullary nail facilitates easier insertion.
- The end cap provides additional stability.
- Refined instruments ensure safer and simpler operation.



## Instruction For Use

### ● 【Indications】

Long bone fractures in children.

## Surgical Procedures

### 【Step 1】 Incision

- Make an incision at the surgical site.
- Dissect the extraosseous soft tissues, retract with a hook, strip the periosteum, and expose the needle entry point.

## Surgical Procedures

### 【Step 2】 Cortical Breach and Reduction

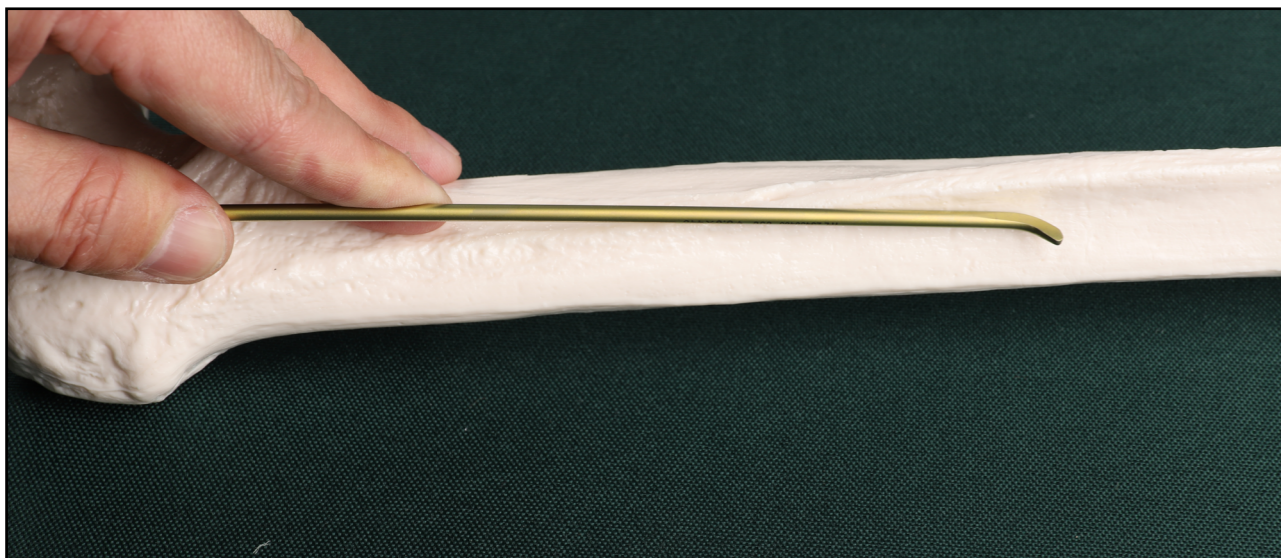
- Use an awl to breach the cortex.
- Use a bone drill under the guidance of a drill guide to breach the deeper bone, creating a channel for the intramedullary nail to enter the medullary cavity.
- Fracture reduction can be performed using a bone lever.



## Surgical Procedures

### 【Step 3】 Needle Preparation

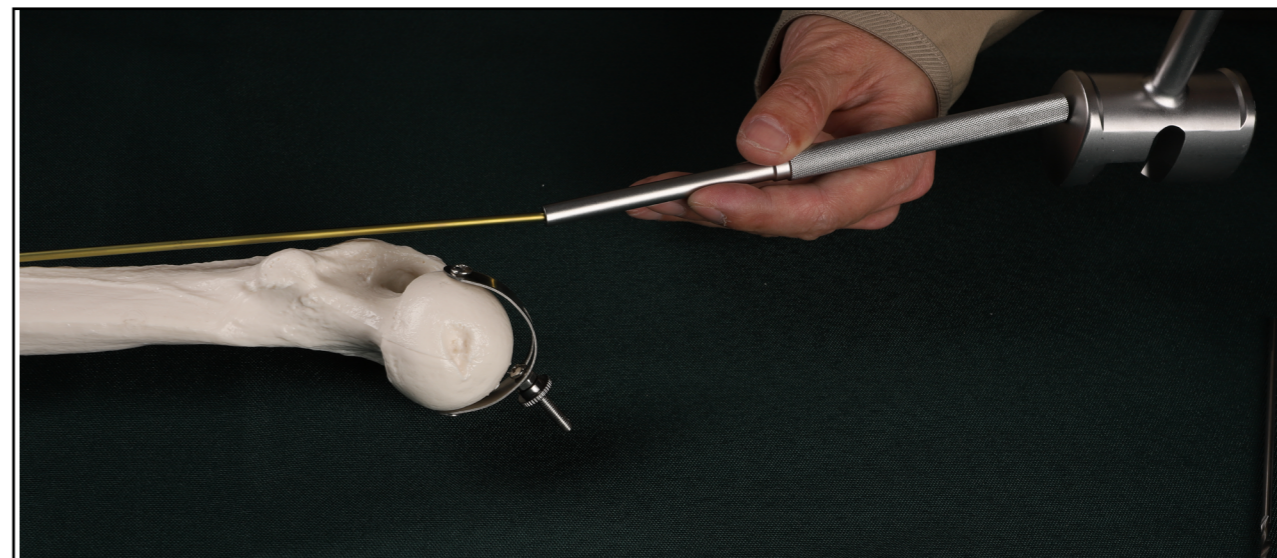
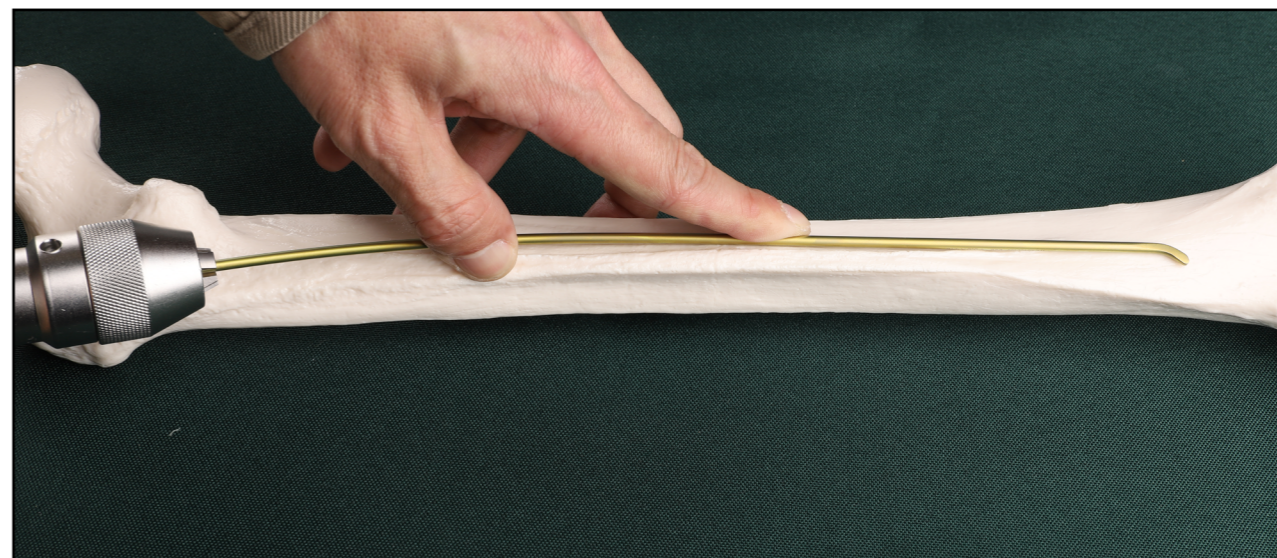
- Select a metal intramedullary needle of appropriate diameter and trim it to the required length using a cutter.
- Adjust the curvature using a nail bender.



## Surgical Procedures

### 【Step 4】 Insert the Intramedullary Nail

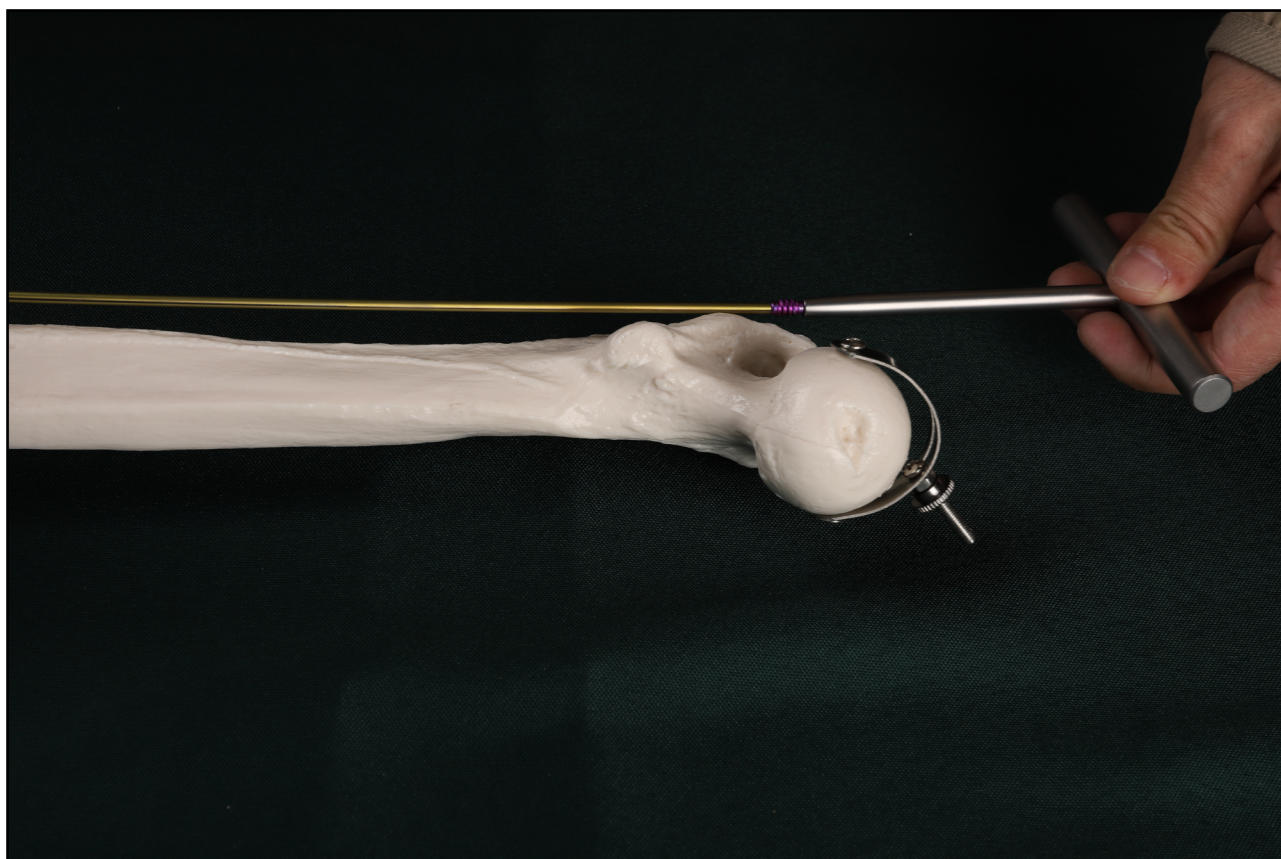
- Insert the intramedullary nail using a driver and a mallet.



## Surgical Procedures

### 【Step 5】 Tighten the End Cap

- Select the appropriate end cap and screw it in by using the matching wrench.

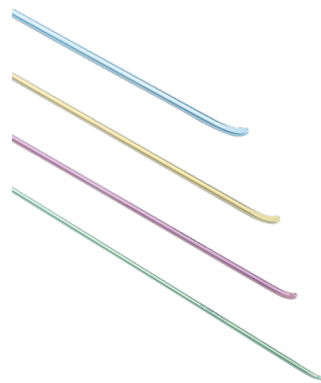


## Surgical Procedures

### 【Step 6】 Suturing

- Confirm the fixation result under fluoroscopy.
- If satisfactory, irrigate and suture the wound.

## Product Information



● 圆形弹性针  
Metal Intramedullary Needle

规格 Description	非灭菌产品编码 Unsterilized Product Code	灭菌产品编码 Sterilized Product Code
φ1.5×300	4301615300	4304615300
φ2.0×440	4301620440	4304620440
φ2.5×440	4301625440	4304625440
φ3.0×440	4301630440	4304630440
φ3.5×440	4301635440	4304635440
φ4.0×440	4301640440	4304640440





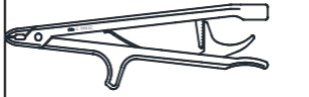
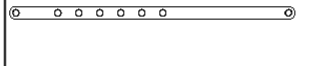




● 尾帽  
End Cap

尾帽 End Cap	灭菌编码 Sterilized Product Code	非灭菌编码 Unsterilized Product Code	备注 Remark
φ2.5	4303600025	4302600025	与 φ1.5/2.0/2.5 弹性针配合使用 Used with φ1.5/2.0/2.5 Metal Intramedullary Needle
φ4.0	4302600040	4303600040	与 φ3.0/3.5/4.0 弹性针配合使用 Used with φ3.0/3.5/4.0 Metal Intramedullary Needle

## Surgical Instruments

1	Awl(straight)	FIN/Q05011		427-011	1		a	427-001 can be used instead
2	Awl (arc)	FIN/Q05010		427-010	1		a	
3	Drill bit ( 2.7 )	FIN/Q05020	Φ 2.7	427-020	2		a	
4	Drill bit ( 3.2 )	FIN/Q05030	Φ 3.2	427-030	2		a	
5	Drill bit ( 4.5 )	FIN/Q05040	Φ 4.5	427-040	2		a	
6	Drill guide (double head)	FZN/Q08050	φ 3.2-φ 4.5	418-050	1		b	
7	Impeller	FIN/Q05060		427-060	1		b	
8	Bone hammer	FIN/Q05070		427-070	1		b	
9	Impactor	FIN/Q05080		427-080	1		b	Use with removal forceps
10	Cutter(main body)	FIN/Q05090		427-090	1		b	Assembly and combination use for cutting intramedullary needle
11	Cutter(wrench)	FIN/Q05100		427-100	1		b	
12	Impeller (straight)	FIN/Q05110		427-110	1		b	
13	Impeller(oblique)	FIN/Q05120		427-120	1		b	

## Surgical Instruments

14	Wrench ( 3.5)	FIN/Q05130	Φ3.5	427-130	1		b	Used for 2.5 end caps
15	Wrench( 5.0)	FIN/Q05140	Φ5.0	427-140	1		b	Used for 4.0 end caps
16	Extraction forceps	FIN/Q05150		427-150	1		b	
17	Pry bar (reset plate)	FIN/Q05160		427-160	1		b	Assembly and combination use
18	Pry bar (reset bar)	FIN/Q05170		427-170	3		b	
19	Wrench( 4.5)	FIN/Q05180	Φ4.5	427-180	1		b	Use with a pry bar
20	Rod bending device	FIN/Q05190		427-190	2		b	Pre bending for intramedullary needles
21	Steel needle scissors	FIN/Q05200		427-200	1		b	selective